MIL-ST Fiber Optic Connectors For Military & Commercial Use





MIL-ST Connectors

About Mil-ST Connectors

Amphenol Fiber Systems International (AFSI) offers rugged military fiber optic ST connectors for deployable and fixed communication systems. These connectors meet the stringent requirements of MIL-C-83522. AFSI's connectors are designed to provide the best possible optical performance in applications with severe environmental conditions.

The M83522 connector features a higher spring force than commercial ST connectors, allowing it to meet the shock and vibration requirements of MIL-C-83522. Stainless steel construction provides excellent mechanical strength and superior corrosion resistance. The boot is attached either by compression ring or by a threaded adapter.

US Navy approved Commercial-off-the-Shelf (COTS) ST connectors provide the same robustness with a spring force more consistent with commercial ST connectors. The COTS product is designed for use in shock-isolated environments, or to interface with commercial electronics and non-mil-spec ST adapters. It is also appropriate for applications where corrosion resistance and mechanical strength are desirable.

Features and Benefits

- DFAR 252.225-7014 (Domestic Specialty Metals) compliant
- RoHS compliant
- Superior optical performance in extreme environmental conditions
- Super and Ultra PC polish capabilities
- Robust construction:
 - High grade stainless steel body (17-4 SS)
 - Zirconia ceramic ferrules and sleeves
 - Fungus-resistant, self-extinguishing boot
- Mil-qualified series: high spring force for shock and vibration resistance critical in military applications
- Navy approved COTS: for moderate shock and vibration environments



Applications

- US Navy shipboard, surface and submarine, mission critical combat and communications systems
- Mobile tactical shelters
- Electronic battlefield networks
- Mobile emergency telecommunications stations
- Deployable outdoor, harsh environment

Materials

- Ferrule: Zirconia
- Body: Stainless steel
- Boot: Fungus resistant, self-extinguishing thermoplastic

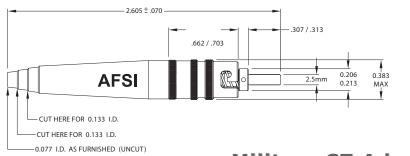
MIL-C-83522 Connector Performance Specifications

Specification	Measurement Requirement
Insertion loss	< 0.75 dB (MIL-C-83522 allows for $<\!1.0$ dB)
Return loss	> 30 dB (multimode)
Tensile loading	> 230 N
Mating durability	> 500 cycles
Impact	8 times, 1.5 meters
Dust	MIL-STD-202, Method 110
Thermal shock	MIL-STD-1678, Method 4020
Vibration	MIL-STD-1344, Method 2005
Temperature humidity	DOD-STD-1678, Method 4030
Salt spray	MIL-STD-1344, Method 1001
Flammability	MIL-STD-1344, Method 1012
Temperature cycling	-55°C to 125°C Op, -65°C to +200°C Non-Op
Shock	MIL-STD-901D, Grade A, Type A, Class I
Fungus resistant	MIL-STD-810, Method 508

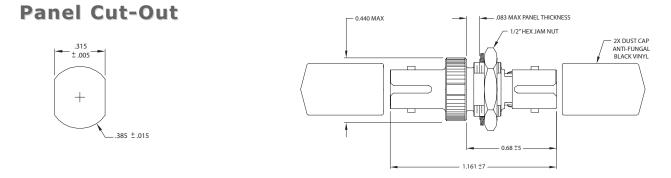
ST Connector Typical Performance Specifications

Specification	Inspection Detail	Single Mode	Multimode
Insertion loss (typical)	EIA/TIA-455-34, Method A	-0.2 dB	-0.3 dB
Return loss	EIA/TIA-455-107	-50 dB	-30 dB





Military ST Adapter



MIL-ST Connectors

Part Numbers & Descriptions

Description	MIL-SPEC Part Number	AFSI Part Number
MIL-ST Connector, MM, Compression Ring Boot MIL-ST Connector, MM, Screw On Boot MIL-ST Connector, SM, Compression Ring Boot MIL-ST Connector, SM, Screw On Boot	M83522/16DNX M83522/16DNX M83522/16DNY M83522/16DNY	MSTC1000 MSTC1001 MSTC2000 MSTC2001
MIL-ST Adapter, SM & MM	M83522/17NY	MSTA2000
COTS Ordering Numbers Description	COTS Numbers	
COTS ST Connector, MM, Compression Ring Boot COTS ST Connector, MM, Screw On Boot COTS ST Connector, SM, Compression Ring Boot COTS ST Connector, SM, Screw On Boot ST Connector, MM, Closed Bayonet	MSTC1100 MSTC1101 MSTC2100 MSTC2101 MSTC1110	

How to Order

For more information on how to order or to obtain a price quote, please call us at 800.472.4225. For international calls please dial 1.214.547.2400 or email us at info@fibersystems.com

About AFSI

Amphenol Fiber Systems International (AFSI) designs, manufactures, markets and supports reliable and innovative fiber optic interconnect solutions that withstand the harsh environments of military, oil & gas, mining and broadcast applications. After more than a decade in business, AFSI continues to uphold its position as a global leader in fiber optic interconnect components and systems such as termini, M28876, MIL-ST, TFOCA and the TFOCA-II[®] connector, which AFSI developed and patented. Altogether, AFSI has delivered millions of fiber optic connectors in more than 22 countries. Whenever there is a need for superior cost-effective fiber optic systems and products that will stand up to demanding operating environments, you can rely on AFSI for engineering know-how, top-quality products and expert technical support.

For more information about AFSI, please visit our web site at www.fibersystems.com

Amphenol Fiber Systems International, Inc. 1300 Central Expressway North, Suite 100 Allen, TX 75013 Phone: 214.547.2400 - 800.472.4225 Fax: 214.547.9344 www.fibersystems.com info@fibersystems.com

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